VAN BUREN COUNTY

JOE PARMAN, DRAIN COMMISSIONER

DAM INSPECTION REPORTS

APRIL, 2011

PROJECT NO. 9527-6

FOR:

SUMMARY OF WORK NEEDED	2
BRANDYINE LAKE	3-6
GRAVEL LAKE	7-10
GREAT BEAR LAKE	11-14
MAGICIAN LAKE	15-17
PUGSLEY (LAKE BROWNWOOD)	18-21
SILVER LAKE	22-25
REYNOLDS LAKE	26-29
ROUND LAKE	30-33
SADDLE LAKE	34-37
SHAFER LAKE	38-41
SCOTT LAKE	42-45
VAN AUKEN LAKE	46-49
LAKE OF THE WOODS	50-54
LAKE OF THE WOODS LAKE OF THE WOODS	

JOE PARMAN VAN BUREN COUNTY DRAIN COMMISSIONER

DAM INSPECTION REPORTS - APRIL, 2011

Summary:

The following lake level structures need work performed in order to assure that they properly maintain the water level designated by the court:

Brandywine Lake

The county drain south of Brandywine Road may need cleaning.

Great Bear Lake

The area inside the fenced area is overgrown with brush and trees. These should be removed and stumps should be treated with herbicide.

Scott Lake

There is some erosion at the outlet pipe. Fill and riprap are needed to stabilize the embankment.

Lake of the Woods

Both steel sheeting wingwalls are developing holes from corrosion. Consideration should be given to repair or replacement of the structure. Trees and brush growing adjacent to the wingwalls should be removed.

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A person failing to comply, or falsely representing dam conditions, is guilty of misconduct in office.

DAM NAME		DAM ID	COUNTY
Brandywine Lake Level C	Control Structure	2019	Van Buren
DATE OF INSPECTION	NAME OF WATERBODY	SECTION, TOWN, RANGE	LEVEL THIS DATE
April 29, 2011	Brandywine Lake	Sec. 29, T1S., R13W.	772.1
DATE OF ELEVATION SET BY COURT	LEGAL LEVEL	DRAWDOWN LEVEL	HIGH WATER MARK ELEVATION
September 16, 1966	771.0	N.A.	

__ FT. RIGHT EMBANKMENT ___

__ FT. TOTAL LENGTH ___

(LOOKING DOWNSTREAM)				
	UPS	TREAM	CROWN	DOWNSTREAM
VEGETATION COVER	enol		N. 200	39000081880 ARI
EROSION				
SEEPAGE				
SLIDES, SLUMPS & CRACKS				
ANIMAL BURROWS			one silo di la como di Sara Laboresa	260TLG TB TWO
WAVE ACTION PROTECTION	Reports have ill diese			
	variation of the mail			

CONTROL STRUCTURE

REMARKS*

TYPE	YEAR CONSTRUCTED	STRUCTURAL HEIGHT	
	A.703 c. a	(top of dam elevation	
Steel Sheet Piling	2003	minus stream invert)	
LENGTH OF SPILL WAY	FREEBOARD	HYDRAULIC HEIGHT	
	STOP DATE OF THE PARTY OF THE P	(design flood elevation	
20'	Contain V	minus stream invert)	
VERTICAL PIPE SIZE	HORIZONTAL PIPE SIZE	HEAD	
	serial and seen	(normal headwater	
	Annual Company of the	minus normal tailwater)	

DESCRIBE CONDITION OF THE FOLLOWING ITEMS.

EARTH EMBANKMENTS LEFT EMBANKMENT __

STOPLOG VALVES AND GATES (open and close to check condition): Check location of top stoplog in relation to top of riser pipe intake box or fixed crest, for leakage, and condition of stoplogs, valves and gates.

None

OUTLET PIPE: Check for damage from ice, logs, vandalism; inside discharge pipe for settlement and/or joint separation; condition of pipe coating.

None

CONTROL STRUCTURE (continued)		5-13	and for small manife
CONCRETE STRUCTURE: Check for erosi	on; location of cracking or spalling. If	old of new, settlement	, need for crank repairs.
None			
WALKWAY & RAILING: Check if in place	or removed, condition, and if adequate	e protection provided.	TRASHRACK OR LOG BOOM: Check if operable.
None			None
EMERGENCY SPILLWAY: Size, type and c	ondition.		
None			
INLET & OUTLET CHANNELS	INLET		OUT
			OUTLET
SIZE	10'		6'
EXISTING CONDITION	High from recent	rains	High from recent rains
EROSION	None		None
DEBRIS & OBSTRUCTIONS	None		None
RIPRAP PROTECTION	Not visable		Not visable
REMARKS*	None		None
RECOMMENDATIONS			
	stimated cost, source of funds, recom	mended completion dat	e. If emergency, to what extent. ADDITIONAL
	pstream and downstream ining. Weir submerged d		n. Past reports have indicated downstream ns.
	Inspection Ordered By:	Joe Parma	n - Van Buren County Drain Commissioner
		Van Burer	n County Delegated Agent
Jeffrey S. Wing	ard	-	4568 Red Arrow Highway
INSPECTOR'S NAME (PI		-	ADDRESS
Les Jalia			Stevensville, MI 49127
SIĞNATURE			CITY, STATE, ZIP CODE
Michigan - 45	106		(269) 428-4424
P.E. REGISTRATION			TELEPHONE NO.

DAM SAFETY

LAND AND WATER MANAGEMENT DIVISION

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY

PO BOX 30458





CONTROL STRUCTURE AND INLET CHANNEL



OUTLET CHANNEL BRANDYWINE LAKE

CONTROL STRUCTURE (continued			
CONCRETE STRUCTURE: Check for	erosion; location of cracking or spalling. If	fold or new, settlement	; need for crank repairs.
None			
WALKWAY & RAILING: Check if in p	place or removed, condition, and if adequate	e protection provided.	TRASHRACK OR LOG BOOM: Check if operable.
None			None
EMERGENCY SPILLWAY: Size, type	and condition.		
None			
INLET & OUTLET CHANNELS	INLET		OUTLET
SIZE	Structure at edge of	of Lake	10'
EXISTING CONDITION	Good		Good
EROSION	None		None
DEBRIS & OBSTRUCTIONS	None		None
RIPRAP PROTECTION	None		
REMARKS*			
RECOMMENDATIONS			
	om, estimated cost, source of funds, recom-	mended completion dat	e. If emergency, to what extent. ADDITIONAL
None			
	Inspection Ordered By:	Joe Parma	n - Van Buren County Drain Commissioner
		Van Burer	n County Delegated Agent
Jeffrey S. W	ingard		4568 Red Arrow Highway
INSPECTOR'S NAM			ADDRESS
44. 72.	N		Stevensville, MI 49127
SIGNATU	RE	-	CITY, STATE, ZIP CODE
Michigan	- 45106		(269) 428-4424
P.E. REGISTRAT		-	TELEPHONE NO.

DAM SAFETY

LAND AND WATER MANAGEMENT DIVISION

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY

PO BOX 30458

This form is to be used for inspection reports by Part 307, Inland Lake Levels, for those dams that do not meet the size criteria as defined by Part 315, Dam Safety, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended. Dams six (6) feet or more in height, as defined by Part 315, and impounding five (5) acres or more at the design flood elevation, must meet the inspection report format as outlined in Section 31518 of Part 315.

EARTH EMBANKMENTS LEFT EMBANKMENT ______FT. RIGHT EMBANKMENT _____FT. TOTAL LENGTH _____FT.

A person failing to comply, or falsely representing dam conditions, is guilty of misconduct in office.

DAM NAME		DAM ID	COUNTY
Gravel Lake Level Contr	ol Structure	2021	Van Buren
DATE OF INSPECTION	NAME OF WATERBODY	SECTION, TOWN, RANGE	LEVEL THIS DATE
April 29, 2011	Gravel Lake	Sec. 32 T. 4S., R.13W.	881.7
DATE OF ELEVATION SET BY COURT	LEGAL LEVEL	DRAWDOWN LEVEL	HIGH WATER MARK ELEVATION
July 25, 1949	881.3	N.A.	

(LOOKING DOWNSTREAM)		Dookl	
	UPSTREAM	CROWN	DOWNSTREAM
		None	SPORTRISTESS SESSI
VEGETATION COVER			
TRACTON		anoV.	
EROSION			
SEEPAGE			FESSE AS
SLIDES, SLUMPS & CRACKS			
SLIDES, SLUMPS & CRACKS	remote was completely and the following ass	succession districtions and become years	and to sever along the
ANIMAL BURROWS			Albestatis
		地 龍市 美国国际共享	

CONTROL STRUCTURE

REMARKS*

WAVE ACTION PROTECTION

CONTRIC DOMAICTREAM

TYPE	YEAR CONSTRUCTED	STRUCTURAL HEIGHT
		(top of dam elevation
U Shaped Sheet Piling	1950	minus stream invert)
LENGTH OF SPILL WAY	FREEBOARD	HYDRAULIC HEIGHT
		(design flood elevation
29'	2'	minus stream invert)
VERTICAL PIPE SIZE	HORIZONTAL PIPE SIZE	HEAD
		(normal headwater
	는 (LE) (105)	minus normal tailwater)

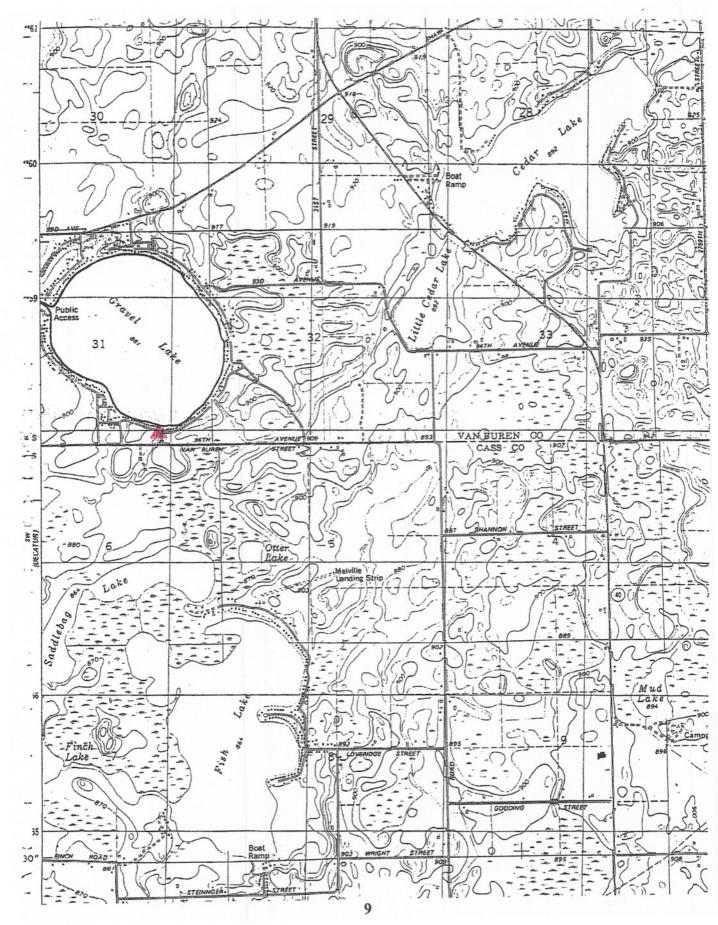
DESCRIBE CONDITION OF THE FOLLOWING ITEMS.

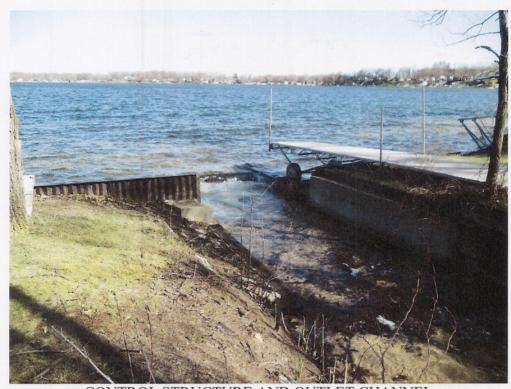
STOPLOG VALVES AND GATES (open and close to check condition): Check location of top stoplog in relation to top of riser pipe intake box or fixed crest, for leakage, and condition of stoplogs, valves and gates.

None

OUTLET PIPE: Check for damage from ice, logs, vandalism; inside discharge pipe for settlement and/or joint separation; condition of pipe coating.

None





CONTROL STRUCTURE AND OUTLET CHANNEL



CONTROL STRUCTURE AND SHORELINE

GRAVEL LAKE

This form is to be used for inspection reports by Part 307, Inland Lake Levels, for those dams that do not meet the size criteria as defined by Part 315, Dam Safety, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended. Dams six (6) feet or more in height, as defined by Part 315, and impounding five (5) acres or more at the design flood elevation, must meet the inspection report format as outlined in Section 31518 of Part 315.

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DAM NAME		DAM ID	COUNTY
Great Bear Lake Level C	ontrol Structure	2022	Van Buren
DATE OF INSPECTION	NAME OF WATERBODY	SECTION, TOWN, RANGE	LEVEL THIS DATE
April 29, 2011	Great Bear Lake	Sec. 24, T.1S., R.15W,	677.0
DATE OF ELEVATION SET BY COURT	LEGAL LEVEL 676.8 Summer	DRAWDOWN LEVEL	HIGH WATER MARK ELEVATION
1963/1986	675.8 Winter	. tsoid	and the second

FT. RIGHT EMBANKMENT _____ FT. TOTAL LENGTH ___

(normal headwater minus normal tailwater)

(LOOKING DOWNSTREAM)			
_	UPSTREAM	CROWN	DOWNSTREAM
3100		7001	
VEGETATION COVER			
EROSION		5809	HOTTOGOOD NA
SEEPAGE			
SLIDES, SLUMPS & CRACKS			agent summarijeo
ANIMAL BURROWS			
. Foliality pay povocas	t ad bloods buy tous tubbel is		iseo deunid
WAVE ACTION PROTECTION		建筑地域的发展的影响。	IN TOTAL DESCRIPTION OF THE PROPERTY OF THE PR
REMARKS*		Inspection Ordered By	

TYPE YEAR CONSTRUCTED STRUCTURAL HEIGHT (top of dam elevation 1986 Sheet Pile minus stream invert) LENGTH OF SPILL WAY FREEBOARD HYDRAULIC HEIGHT (design flood elevation 25 feet minus stream invert) VERTICAL PIPE SIZE HORIZONTAL PIPE SIZE HEAD

DESCRIBE CONDITION OF THE FOLLOWING ITEMS.

EARTH EMBANKMENTS LEFT EMBANKMENT __

STOPLOG VALVES AND GATES (open and close to check condition): Check location of top stoplog in relation to top of riser pipe intake box or fixed crest, for leakage, and condition of stoplogs, valves and gates.

Stoplogs in fish ladder were submerged during inspection. Past report indicated they were in fair to poor condition.

OUTLET PIPE: Check for damage from ice, logs, vandalism; inside discharge pipe for settlement and/or joint separation; condition of pipe coating.

None

CONTROL STRUCTURE

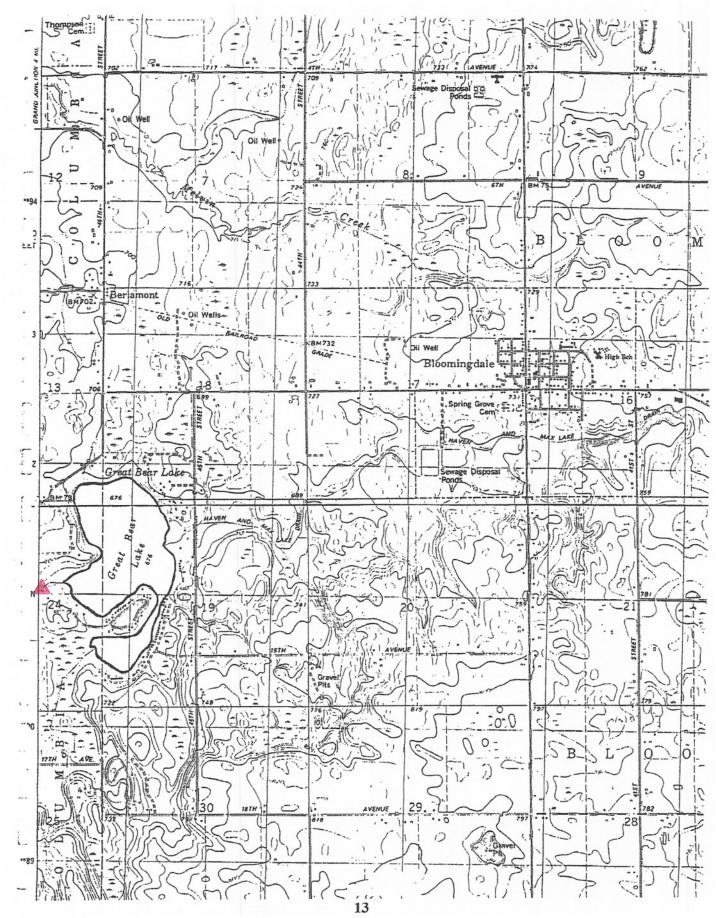
CONTROL STRUCTURE (continued)				
CONCRETE STRUCTURE: Check for erosion, le	ocation of cracking or spalling. If old	or new; settlement; n	eed for crank repairs.	
None				
WALKWAY & RAILING: Check if in place or rea	moved, condition, and if adequate pro	tection provided.	TRASHRACK OR L	OG BOOM: Check if operable.
None			None	
EMERGENCY SPILLWAY: Size, type and condit	tion.		. 7	
None				
INLET & OUTLET CHANNELS	DILET			OUTLET
	INLET			
SIZE	50'			20'
EXISTING CONDITION	Good			Good
EROSION	None			None
DEBRIS & OBSTRUCTIONS	None		None	
RIPRAP PROTECTION	None			Fair
REMARKS*				
RECOMMENDATIONS				
List work needed, how to be done, by whom, estimate	ated cost, source of funds, recommend	ded completion date.	If emergency, to what exten	t. ADDITIONAL
Brush and trees grown treated with herbicide	ing in and around fenced	fish ladder ar	ea and should be re	moved and stumps
	Inspection Ordered By:	Joe Parman	- Van Buren County	Drain Commissioner
		Van Buren	County Delegated Ag	gent
Jeffrey S. Wingard			4568 Red Arrow High	hway
INSPECTOR'S NAME (PRINT	ED)		ADDRE	
111 72001			Stevensville, MI 4912	27
SIGNATURE			CITY, STATE, 2	
Michigan - 4510	6		(269) 428-4424	
P.E. REGISTRATION NO.			TELEPHON	E NO.

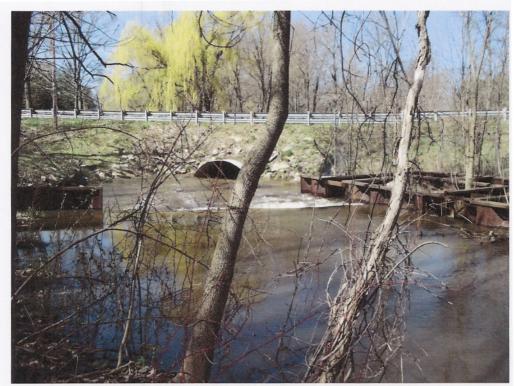
DAM SAFETY

LAND AND WATER MANAGEMENT DIVISION

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY

PO BOX 30458





CONTROL STRUCTURE AND INLET CHANNEL



CONTROL STRUCTURE

GREAT BEAR LAKE

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DAM NAME		DAM ID	COUNTY
Magician Lake Level Con	trol Structure	1939	Van Buren
DATE OF INSPECTION	NAME OF WATERBODY	SECTION, TOWN, RANGE	LEVEL THIS DATE
April 29, 2011	Magician Lake	Sec. 34, 3 & 4, T.4S., R.16W.	762.8
DATE OF ELEVATION SET BY COURT	LEGAL LEVEL 763.0 Summer	DRAWDOWN LEVEL	HIGH WATER MARK ELEVATION
November 13, 1962	762.0 Winter	762.4	The second secon

EARTH EMBANKMENTS LEFT EMBANKMENT _____ FT. RIGHT EMBANKMENT _____ FT. TOTAL LENGTH _____ FT. (LOOKING DOWNSTREAM)

	UPSTREAM	CROWN	DOWNSTREAM
3807		andy and a second	SECTION TERO & SE
VEGETATION COVER			
0901		booD	
ROSION			
EEPAGE			(2.22)
LIDES, SLUMPS & CRACKS	THE COMMON THE PROPERTY OF THE		25001.5003.5
NIMAL BURROWS			51.00
VAVE ACTION PROTECTION			
tannoul tannoù nie.Cl	Total Control		
EMARKS*	2000 1000 1000	ACT SHARLS DISTURDED	

CONTROL STRUCTURE

TYPE	YEAR CONSTRUCTED	STRUCTURAL HEIGHT
	Maraye & Law State	(top of dam elevation
Concrete Weir	1964	minus stream invert)
LENGTH OF SPILL WAY	FREEBOARD	HYDRAULIC HEIGHT
	ES TA SE MANAGE	(design flood elevation
5'	2' +/-	minus stream invert)
VERTICAL PIPE SIZE	HORIZONTAL PIPE SIZE	HEAD
	1034-104 (285)	(normal headwater
None	None	minus normal tailwater) 1.0 +/-

DESCRIBE CONDITION OF THE FOLLOWING ITEMS.

STOPLOG VALVES AND GATES (open and close to check condition): Check location of top stoplog in relation to top of riser pipe intake box or fixed crest, for leakage, and condition of stoplogs, valves and gates.

No Stoplogs in place

OUTLET PIPE: Check for damage from ice, logs, vandalism; inside discharge pipe for settlement and/or joint separation; condition of pipe coating.

None

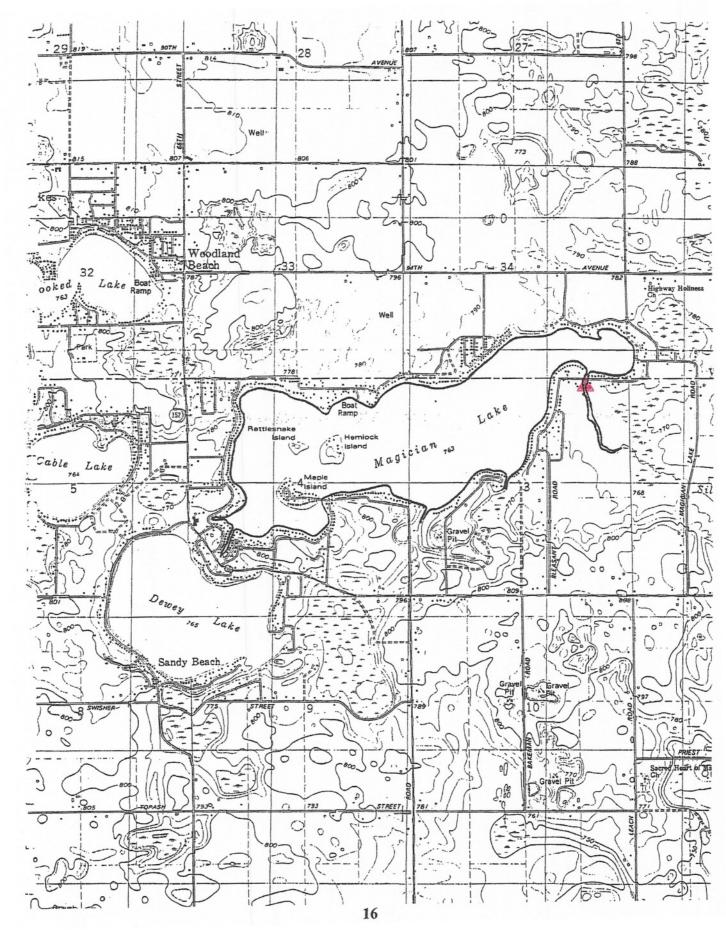
CONTROL STRUCTURE (continued)			
CONCRETE STRUCTURE: Check for erosion	; location of cracking or spalling. If old of	or new; settlement; n	need for crank repairs.
Good			
WALKWAY & RAILING: Check if in place or	removed, condition, and if adequate prote	ection provided.	TRASHRACK OR LOG BOOM: Check if operable.
Good			None
EMERGENCY SPILLWAY: Size, type and cor	ndition.		
None			
INLET & OUTLET CHANNELS	INLET		OUTLET
SIZE	30'		10'
EXISTING CONDITION	Fair		Good
EROSION	None		None
DEBRIS & OBSTRUCTIONS	None		None
RIPRAP PROTECTION	Good		Good
REMARKS*	None		None
RECOMMENDATIONS			
List work needed, how to be done, by whom, est COMMENTS.	imated cost, source of funds, recommend	ed completion date.	If emergency, to what extent. ADDITIONAL
None			
Inspection Ordered By:		Joe Parman - Van Buren County Drain Commissioner	
		Van Buren	County Delegated Agent
Jeffrey S. Wingard		4568 Red Arrow Highway	
INSPECTOR'S NAME (PRI			ADDRESS
GH, Work	J		Stevensville, MI 49127
USIGNATURE			CITY, STATE, ZIP CODE
Michigan - 4510 P.E. REGISTRATION N			(269) 428-4424 TELEPHONE NO
P.E. REGISTRATION N	io.	TELEPHONE NO.	

DAM SAFETY

LAND AND WATER MANAGEMENT DIVISION

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY

PO BOX 30458





LEVEL CONTROL STRUCTURE - STOPLOG RAISED



OUTLET CHANNEL

MAGICIAN LAKE

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DAM NAME		DAM ID	COUNTY
Pugsley (Brownwood) La	ake Level Control Str.	2023	Van Buren
DATE OF INSPECTION	NAME OF WATERBODY Pugsley Lake	SECTION, TOWN, RANGE	LEVEL THIS DATE
April 29, 2011	(Brownwood Lake)	Sec. 3, T.3S., R.14W.	696.9
DATE OF ELEVATION SET BY COURT	LEGAL LEVEL	DRAWDOWN LEVEL	HIGH WATER MARK ELEVATION
April 29, 1986	696.5	5000	20000000

EARTH EMBANKMENTS	LEFT EMBANKMENT	FT.	RIGHT EMBANKMENT	FT.	TOTAL LENGTH	FT.
(LOOKING DOWNSTREAM)						

	UPSTREAM	CROWN	DOWNSTREAM
VEGETATION COVER			
EROSION			
SEEPAGE			FEISCA
SLIDES, SLUMPS & CRACKS			SPONTAGING SQUA
ANIMAL BURROWS			BUOK
WAVE ACTION PROTECTION			
REMARKS*	Londor come us A - Writing 60f	of taxe (Castoppe)	

CONTROL STRUCTURE

TYPE	YEAR CONSTRUCTED	STRUCTURAL HEIGHT (top of dam elevation
Drop Inlet at Culvert	1970	minus stream invert)
LENGTH OF SPILL WAY	FREEBOARD	HYDRAULIC HEIGHT
13.19	e- Its oil amazor	(design flood elevation
3.200 C.	1.5'	minus stream invert)
VERTICAL PIPE SIZE	HORIZONTAL PIPE SIZE	HEAD
		(normal headwater
4' x 4' Opening	29" x 18" Arch	minus normal tailwater)

DESCRIBE CONDITION OF THE FOLLOWING ITEMS.

STOPLOG VALVES AND GATES (open and close to check condition): Check location of top stoplog in relation to top of riser pipe intake box or fixed crest, for leakage, and condition of stoplogs, valves and gates.

None

OUTLET PIPE: Check for damage from ice, logs, vandalism; inside discharge pipe for settlement and/or joint separation; condition of pipe coating.

Good

CONTROL STRUCTURE (continued)				
CONCRETE STRUCTURE: Check for eros	sion; location of cracking or spalling. If old of	or new; settlement; n	need for crank repairs.	
Good Condition				
WALKWAY & RAILING: Check if in place	e or removed condition and if adequate prot	rection provided	TRASHRACK OR LOG BOOM: Check if operable.	
	o or removed, condition, and is adequate pro-	provided.		
None			Good Condition	
EMERGENCY SPILLWAY: Size, type and	condition.			
None				
INLET & OUTLET CHANNELS	INLET		OUTLET	
SIZE	Structure at edge of l	ake	10'	
	Directare at eage of it			
EXISTING CONDITION	Good		Good	
EROSION	None		None	
DEBRIS & OBSTRUCTIONS	None		None	
RIPRAP PROTECTION	None		None	
REMARKS*				
RECOMMENDATIONS				
	estimated cost, source of funds, recommend	led completion date.	If emergency, to what extent. ADDITIONAL	
None				
	Inspection Ordered By:	Joe Parman	- Van Buren County Drain Commissioner	
		Van Buren	County Delegated Agent	
Jeffrey S. Wing			4568 Red Arrow Highway	
INSPECTOR'S NAME (I	'RINTED)		ADDRESS	
441 W.	\sim		Stevensville, MI 49127	
J Signature			CITY, STATE, ZIP CODE	
Michigan - 45			(269) 428-4424	
P.E. REGISTRATIO	N NO.	TELEPHONE NO.		

DAM SAFETY LAND AND WATER MANAGEMENT DIVISION MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY PO BOX 30458 LANSING MI 48909-7958

PAW MICH 7.5 MINU 3868 IV SW (GOBLES WEST) 55' 590 33" .34 35 AVENUE L E R 0:1:698 Brownwood 10 757 F Do Ismons Pond C 15 AND AVENUE 733 SEWAGE DISPOSAL PONDS 20



CONTROL STRUCTURE AT EDGE OF LAKE



PUGSLEY LAKE (BROWNWOOD LAKE)

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DAM NAME		DAM ID	COUNTY
Silver Lake Level Contro	ol Structure	2205	Van Buren
DATE OF INSPECTION	NAME OF WATERBODY	SECTION, TOWN, RANGE	LEVEL THIS DATE
April 29, 2011	Silver Lake	Sec. 9 & 16, T.1S., R.15W.	675.7
DATE OF ELEVATION SET BY	LEGAL LEVEL	DRAWDOWN LEVEL	HIGH WATER MARK ELEVATION
COURT			
April 29, 1986	676.0	. 500.3	MODITIEWOO OKE

___ FT. RIGHT EMBANKMENT _____ FT. TOTAL LENGTH

	UPSTREAM	CROWN	DOWNSTREAM
VEGETATION COVER			
EROSION			
SEEPAGE			AND STATE OF THE S
SLIDES, SLUMPS & CRACKS			2010/11/07/04/100
ANIMAL BURROWS			
WAVE ACTION PROTECTION			
DEMADUS*		real boatest methyled	

CONTROL STRUCTURE

TYPE	YEAR CONSTRUCTED	STRUCTURAL HEIGHT
		(top of dam elevation
Concrete Box with Concrete Cover	Unknown	minus stream invert)
LENGTH OF SPILL WAY	FREEBOARD	HYDRAULIC HEIGHT
		(design flood elevation
None		minus stream invert)
VERTICAL PIPE SIZE	HORIZONTAL PIPE SIZE	HEAD
		(normal headwater
	15" CMP	minus normal tailwater)

DESCRIBE CONDITION OF THE FOLLOWING ITEMS.

EARTH EMBANKMENTS LEFT EMBANKMENT ___

(LOOKING DOWNSTREAM)

STOPLOG VALVES AND GATES (open and close to check condition): Check location of top stoplog in relation to top of riser pipe intake box or fixed crest, for leakage, and condition of stoplogs, valves and gates.

None

OUTLET PIPE: Check for damage from ice, logs, vandalism; inside discharge pipe for settlement and/or joint separation; condition of pipe coating.

Outlet Pipe has been extended to edge of Saddle Lake.

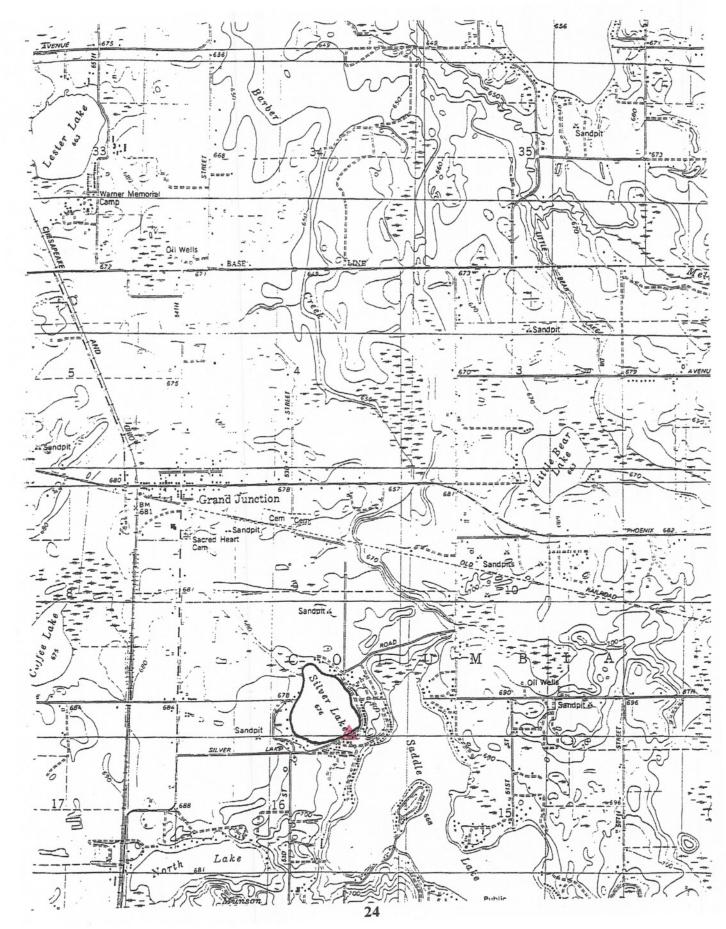
CONTROL STRUCTURE (continued)	in the control of the		
Good	sion; location of cracking or spalling. If old or new; settlement; n	eed for crank repairs.	
WALKWAY & RAILING: Check if in place	e or removed, condition, and if adequate protection provided.	TRASHRACK OR LOG BOOM: Check if operable.	
None		Good	
EMERGENCY SPILLWAY: Size, type and	condition.		
None			
INLET & OUTLET CHANNELS	DHET	OLEH ET	
	INLET	OUTLET	
SIZE	Structure at edge of lake	Pipe	
EXISTING CONDITION	Good	Good	
EROSION	None	None	
DEBRIS & OBSTRUCTIONS	None	None	
RIPRAP PROTECTION	None	Pipe End Section and Riprap	
REMARKS*	None	None	
RECOMMENDATIONS			
List work needed, how to be done, by whom, COMMENTS.	estimated cost, source of funds, recommended completion date.	If emergency, to what extent. ADDITIONAL	
None			
	Inspection Ordered By: Joe Parman	- Van Buren County Drain Commissioner	
	Van Buren (County Delegated Agent	
Jeffrey S. Wing	gard 4	4568 Red Arrow Highway ADDRESS	
11,01		Stevensville, MI 49127	
SIGNATURE	<u></u>	CITY, STATE, ZIP CODE	
Michigan - 45	5106	(269) 428-4424	
P.E. REGISTRATIO		TELEPHONE NO.	

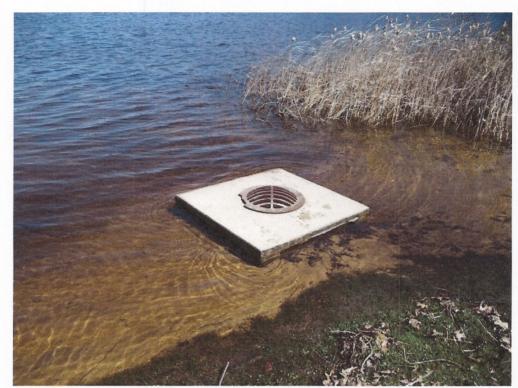
DAM SAFETY

LAND AND WATER MANAGEMENT DIVISION

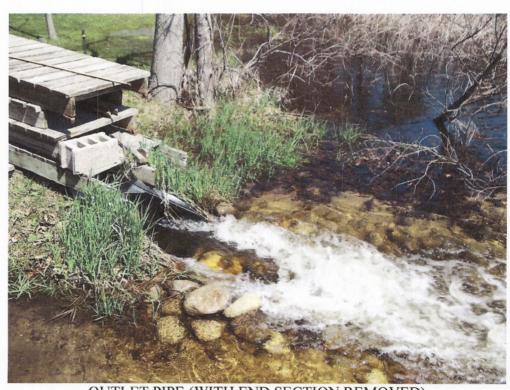
MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY

PO BOX 30458





CONTROL STRUCTURE AT EDGE OF LAKE



OUTLET PIPE (WITH END SECTION REMOVED)

SILVER LAKE

This form is to be used for inspection reports by Part 307, Inland Lake Levels, for those dams that do not meet the size criteria as defined by Part 315, Dam Safety, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended. Dams six (6) feet or more in height, as defined by Part 315, and impounding five (5) acres or more at the design flood elevation, must meet the inspection report format as outlined in Section 31518 of Part 315.

A person failing to comply, or falsely representing dam conditions, is guilty of misconduct in office.

DAM NAME Reynolds Lake Level Control Structure		DAM ID	COUNTY
		2024	Van Buren
DATE OF INSPECTION	NAME OF WATERBODY	SECTION, TOWN, RANGE	LEVEL THIS DATE
April 29, 2011	Reynolds Lake	Sec. 24, T.2S., R.15W.	758.2
DATE OF ELEVATION SET BY	LEGAL LEVEL	DRAWDOWN LEVEL	HIGH WATER MARK ELEVATION
COURT			
May 5, 1951	758.0	N.A.	Romosona

FT. RIGHT EMBANKMENT _____ FT. TOTAL LENGTH _

(LOOKING DOWNSTREAM)			
Nove	UPSTREAM	CROWN	DOWNSTREAM
VEGETATION COVER			
EROSION			ALCOHOLOG CAS
SEEPAGE			*2.20.3
SLIDES, SLUMPS & CRACKS			. EMGITAGESHAN
			27/380
ANIMAL BURROWS			SHOPL
WAVE ACTION PROTECTION	or Treated and the control of and		

CONTROL STRUCTURE

REMARKS*

TYPE	YEAR CONSTRUCTED	STRUCTURAL HEIGHT
Steel Sheet Piling	1975	(top of dam elevation minus stream invert)
LENGTH OF SPILL WAY	FREEBOARD	HYDRAULIC HEIGHT
	F COLUMN TO THE PARTY OF THE PA	(design flood elevation
7.5'	1'	minus stream invert)
VERTICAL PIPE SIZE	HORIZONTAL PIPE SIZE	HEAD
		(normal headwater
		minus normal tailwater)

DESCRIBE CONDITION OF THE FOLLOWING ITEMS.

EARTH EMBANKMENTS LEFT EMBANKMENT

OOVING DOWNSTREAM

STOPLOG VALVES AND GATES (open and close to check condition): Check location of top stoplog in relation to top of riser pipe intake box or fixed crest, for leakage, and condition of stoplogs, valves and gates.

None

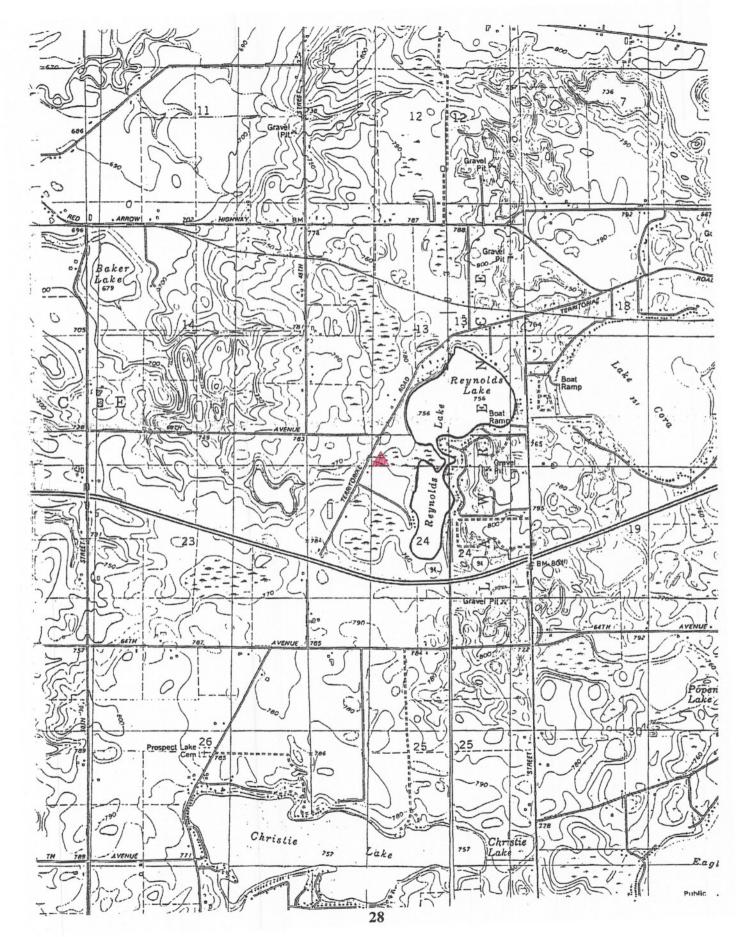
OUTLET PIPE: Check for damage from ice, logs, vandalism; inside discharge pipe for settlement and/or joint separation; condition of pipe coating.

None

CONTROL STRUCTURE (continued			
CONCRETE STRUCTURE: Check for	erosion; location of cracking or spalling. If old or new, settlement	; need for crank repairs.	
None			
WALKWAY & RAILING: Check if in p	place or removed, condition, and if adequate protection provided.	TRASHRACK OR LOG BOOM: Check if operable.	
None		None	
EMERGENCY SPILLWAY: Size, type	and condition.		
None			
INLET & OUTLET CHANNELS	INLET	OUTLET	
SIZE	10'	8'	
EXISTING CONDITION	Fair	Fair	
EROSION	None	None	
DEBRIS & OBSTRUCTIONS	None	None	
RIPRAP PROTECTION	None	None	
REMARKS*			
RECOMMENDATIONS			
List work needed, how to be done, by who COMMENTS.	om, estimated cost, source of funds, recommended completion dat	te. If emergency, to what extent. ADDITIONAL	
None			
	Inspection Ordered By: Joe Parma	n - Van Buren County Drain Commissioner	
	Van Burer	n County Delegated Agent	
Jeffrey S. W	ingard	4568 Red Arrow Highway	
INSPECTOR'S NAM		ADDRESS	
111 010	1.0/	Stevensville, MI 49127	
SIGNATU	RE	CITY, STATE, ZIP CODE	
Michigan -	45106	(269) 428-4424	
P.E. REGISTRAT		TELEPHONE NO.	

DAM SAFETY
LAND AND WATER MANAGEMENT DIVISION
MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
PO BOX 30458
LANSING MI 48909-7958

*NOTE: If space is inadequate for remarks, attach additional sheets as needed.





CONTROL STRUCTURE



CONTROL STRUCTURE AND INLET CHANNEL

REYNOLDS LAKE

This form is to be used for inspection reports by Part 307, Inland Lake Levels, for those dams that do not meet the size criteria as defined by Part 315, Dam Safety, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended. Dams six (6) feet or more in height, as defined by Part 315, and impounding five (5) acres or more at the design flood elevation, must meet the inspection report format as outlined in Section 31518 of Part 315.

April 29, 2011 Round Lake Sec. 31, T.4S., R.16W. DATE OF ELEVATION SET BY COURT 766.0 June, 1952 Degree of structure is 768.00 EARTH EMBANKMENTS LEFT EMBANKMENT FT. RIGHT EMBANKMENT FT. TOTAL LENGTH LOOKING DOWNSTREAM) UPSTREAM CROWN VEGETATION COVER EROSION SEEPAGE SLIDES, SLUMPS & CRACKS ANIMAL BURROWS WAVE ACTION PROTECTION REMARKS* CONTROL STRUCTURE	Van Buren
April 29, 2011 Round Lake Sec. 31, T.4S., R.16W. Date of elevation set by Legal level 766.0 June, 1952 Overflow elev. 768.0 Earth embankments left embankment ft. right embankment ft. occording downstream) Upstream Crown Upstream Crown Upstream Crown Upstream Crown Wegetation cover Erosion Seepage Slides, slumps & cracks Animal burrows Wave action protection Remarks* Control structure	TE
DATE OF ELEVATION SET BY COURT June, 1952 Overflow elev. 768.0 Verflow elevation of structure is 768.00 EARTH EMBANKMENTS LEFT EMBANKMENT LLOOKING DOWNSTREAM UPSTREAM CROWN VEGETATION COVER EROSION SEEPAGE SLIDES, SLUMPS & CRACKS ANIMAL BURROWS WAVE ACTION PROTECTION REMARKS* CONTROL STRUCTURE	11L
DATE OF ELEVATION SET BY COURT June, 1952 Overflow elev. 768.0 Overflow elev. 768.0 Verflow elevation of structure is 768.00 EARTH EMBANKMENTS LEFT EMBANKMENT LEOKING DOWNSTREAM) UPSTREAM CROWN VEGETATION COVER EROSION SEEPAGE SLIDES, SLUMPS & CRACKS ANIMAL BURROWS WAVE ACTION PROTECTION REMARKS* CONTROL STRUCTURE	766.0
Tourt June, 1952 Overflow elev. 768.0 *Overflow elevation of structure is 768.00 EARTH EMBANKMENTS LEFT EMBANKMENT FT. RIGHT EMBANKMENT FT. TOTAL LENGTH_ LOOKING DOWNSTREAM) UPSTREAM CROWN VEGETATION COVER EROSION SEEPAGE SLIDES, SLUMPS & CRACKS ANIMAL BURROWS WAVE ACTION PROTECTION REMARKS* CONTROL STRUCTURE	
June, 1952 Overflow elev. 768.0 *Overflow elevation of structure is 768.00 EARTH EMBANKMENTS LEFT EMBANKMENT FT. RIGHT EMBANKMENT FT. TOTAL LENGTH	MARK ELEVATION
* Overflow elevation of structure is 768.00 EARTH EMBANKMENTS LEFT EMBANKMENTFT. RIGHT EMBANKMENTFT. TOTAL LENGTH (LOOKING DOWNSTREAM) UPSTREAM CROWN VEGETATION COVER EROSION SEEPAGE SLIDES, SLUMPS & CRACKS ANIMAL BURROWS WAVE ACTION PROTECTION REMARKS* CONTROL STRUCTURE	
EARTH EMBANKMENTS LEFT EMBANKMENT FT. RIGHT EMBANKMENT FT. TOTAL LENGTH (LOOKING DOWNSTREAM) UPSTREAM CROWN VEGETATION COVER EROSION SEEPAGE SLIDES, SLUMPS & CRACKS ANIMAL BURROWS WAVE ACTION PROTECTION REMARKS* CONTROL STRUCTURE	
VEGETATION COVER EROSION SEEPAGE SLIDES, SLUMPS & CRACKS ANIMAL BURROWS WAVE ACTION PROTECTION REMARKS* CONTROL STRUCTURE	FT.
EROSION SEEPAGE SLIDES, SLUMPS & CRACKS ANIMAL BURROWS WAVE ACTION PROTECTION REMARKS* CONTROL STRUCTURE	DOWNSTREAM
SEEPAGE SLIDES, SLUMPS & CRACKS ANIMAL BURROWS WAVE ACTION PROTECTION REMARKS* CONTROL STRUCTURE	
SLIDES, SLUMPS & CRACKS ANIMAL BURROWS WAVE ACTION PROTECTION REMARKS* CONTROL STRUCTURE	
SLIDES, SLUMPS & CRACKS ANIMAL BURROWS WAVE ACTION PROTECTION REMARKS* CONTROL STRUCTURE	
ANIMAL BURROWS WAVE ACTION PROTECTION REMARKS* CONTROL STRUCTURE	
WAVE ACTION PROTECTION REMARKS* CONTROL STRUCTURE	39600 6.00.80
REMARKS* CONTROL STRUCTURE	
REMARKS* CONTROL STRUCTURE	201011
CONTROL STRUCTURE	
CONTROL STRUCTURE TYPE YEAR CONSTRUCTED STRUCTURAL HEIGHT	
TYPE VEAR CONSTRUCTED STRUCTURAL HEIGHT	
	- Vollac
Concrete over flow box (2' - 8" x 2' - 8") 1996 (top of dam elevation minus stream invert)	
LENGTH OF SPILL WAY FREEBOARD HYDRAULIC HEIGHT	
(design flood elevation	
1' minus stream invert)	
VERTICAL PIPE SIZE HORIZONTAL PIPE SIZE HEAD	
(normal headwater minus normal tailwater)	3.0'

Gate Closed (not operated during inspection)

leakage, and condition of stoplogs, valves and gates.

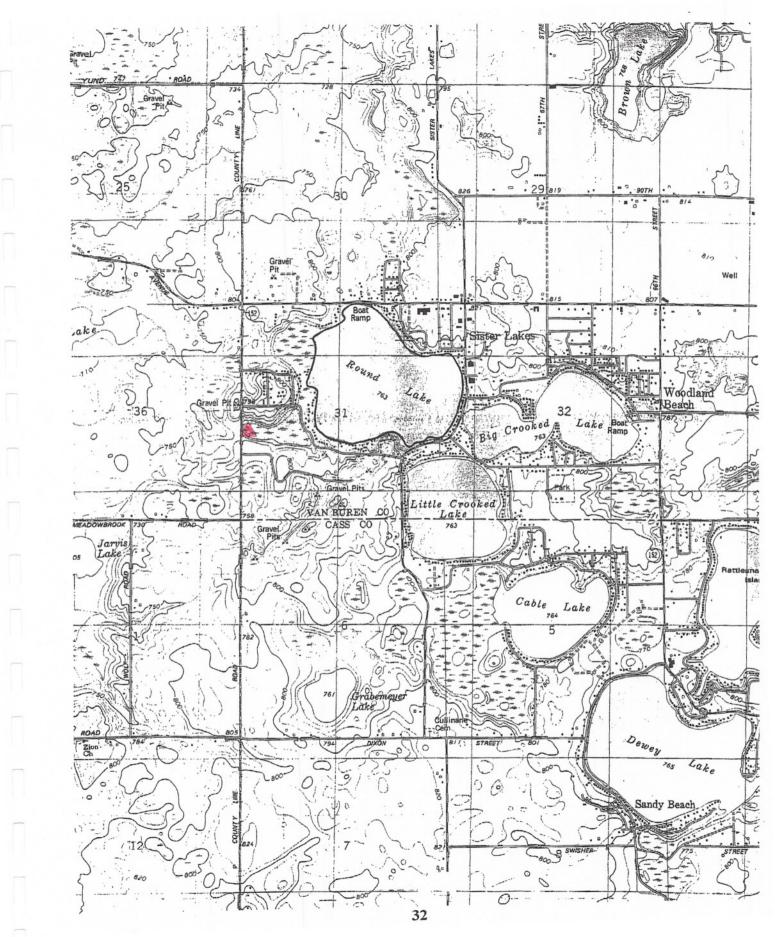
OUTLET PIPE: Check for damage from ice, logs, vandalism; inside discharge pipe for settlement and/or joint separation; condition of pipe coating.

STOPLOG VALVES AND GATES (open and close to check condition): Check location of top stoplog in relation to top of riser pipe intake box or fixed crest, for

24" pipe is clear

CONTROL STRUCTURE (continued		
CONCRETE STRUCTURE: Check for	erosion; location of cracking or spalling. If old or new, set	tlement; need for crank repairs.
Excellent		
WALKWAY & RAILING: Check if in p	place or removed, condition, and if adequate protection prov	vided. TRASHRACK OR LOG BOOM: Check if operable.
None		Good
EMERGENCY SPILLWAY: Size, type	and condition.	
None		
INLET & OUTLET CHANNELS	INLET	OUTLET
aver.		24" CMP
SIZE	Structure at edge of wetland	24 CMP
EXISTING CONDITION	Good	Good
EROSION	None	None
DEBRIS & OBSTRUCTIONS	None	None
RIPRAP PROTECTION	None	None
REMARKS*	None	None
RECOMMENDATIONS List work needed, how to be done, by whe COMMENTS.	om, estimated cost, source of funds, recommended comple	tion date. If emergency, to what extent. ADDITIONAL
None		
	Inspection Ordered By: Joe P	Parman - Van Buren County Drain Commissioner
		Buren County Delegated Agent
I-CCC XX	r1	45(0 D. 1 4 III 1
Jeffrey S. W INSPECTOR'S NAM	E (PRINTED)	4568 Red Arrow Highway ADDRESS
and on		Stevensville, MI 49127
OS)GNATU	RE	CITY, STATE, ZIP CODE
Michigan	- 45106	(269) 428-4424
P.E. REGISTRAT		TELEPHONE NO.

DAM SAFETY
LAND AND WATER MANAGEMENT DIVISION
MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
PO BOX 30458





CONTROL STRUCTURE



CONTROL STRUCTURE AND INLET CHANNEL

ROUND LAKE

This form is to be used for inspection reports by Part 307, Inland Lake Levels, for those dams that do not meet the size criteria as defined by Part 315, Dam Safety, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended. Dams six (6) feet or more in height, as defined by Part 315, and impounding five (5) acres or more at the design flood elevation, must meet the inspection report format as outlined in Section 31518 of Part 315.

A person failing to comply, or falsely representing dam conditions, is guilty of misconduct in office.

DAM NAME		DAM ID	COUNTY	
Saddle Lake Level Contr	ol Structure	2025	Van Buren	
DATE OF INSPECTION	NAME OF WATERBODY	SECTION, TOWN, RANGE	LEVEL THIS DATE	
April 29, 2011	Saddle Lake	Sec. 10, T.1S., R.15W.	668.0	
DATE OF ELEVATION SET BY	LEGAL LEVEL	DRAWDOWN LEVEL	HIGH WATER MARK ELEVATION	
COURT	668.0 Summer			
July 6, 1931	667.67 Winter	10000	Managago okur	

EARTH EMBANKMENTS LEFT EMBANKMENT _____ FT. TOTAL LENGTH _____ FT. (LOOKING DOWNSTREAM)

Tarif _	UPSTREAM	CROWN	DOWNSTREAM
	,		
VEGETATION COVER			
EROSION			
SEEPAGE			*1,3330
SLIDES, SLUMPS & CRACKS			200720000000
ANIMAL BURROWS			
WAVE ACTION PROTECTION			
Drain Cognissiones		business Oriental the	
REMARKS*			

CONTROL STRUCTURE

TYPE	YEAR CONSTRUCTED	STRUCTURAL HEIGHT (top of dam elevation	
Sheet Piling	1981	minus stream invert)	
LENGTH OF SPILL WAY	FREEBOARD	HYDRAULIC HEIGHT	
		(design flood elevation	
20'		minus stream invert)	
VERTICAL PIPE SIZE	HORIZONTAL PIPE SIZE	HEAD	
		(normal headwater	
		minus normal tailwater)	

DESCRIBE CONDITION OF THE FOLLOWING ITEMS.

STOPLOG VALVES AND GATES (open and close to check condition): Check location of top stoplog in relation to top of riser pipe intake box or fixed crest, for leakage, and condition of stoplogs, valves and gates.

Stoplogs not in place at time of inspection

OUTLET PIPE: Check for damage from ice, logs, vandalism; inside discharge pipe for settlement and/or joint separation; condition of pipe coating.

None

CONTROL STRUCTURE (continued) CONCRETE STRUCTURE: Check for erosion	location of cracking or spalling. If old or	new settlement n	need for crank renairs
	, location of cracking of spanning. If the or	new, settlement, n	iod for dank repairs.
None			
WALKWAY & RAILING: Check if in place or	removed, condition, and if adequate protect	tion provided.	TRASHRACK OR LOG BOOM: Check if operable.
None			None
EMERGENCY SPILLWAY: Size, type and con	dition.		
None			
INLET & OUTLET CHANNELS	INLET		OUTLET
SIZE	16'		12'
EXISTING CONDITION	Good		Fair
EROSION	None		None
DEBRIS & OBSTRUCTIONS	None		Fair
RIPRAP PROTECTION	None		Good
REMARKS*	None		None
RECOMMENDATIONS List work needed, how to be done, by whom, esti COMMENTS.	imated cost, source of funds, recommended	completion date.	If emergency, to what extent. ADDITIONAL
None			
	Inspection Ordered By:	Joe Parman	- Van Buren County Drain Commissioner
		Van Buren	County Delegated Agent
Jeffrey S. Wingar	d		4568 Red Arrow Highway
INSPECTOR'S NAME (PRIN			ADDRESS
CANATIDE OF STATE OF	MY		Stevensville, MI 49127 CITY, STATE, ZIP CODE
SIGNATURE			
Michigan - 45106		(269) 428-4424 TELEPHONE NO	

DAM SAFETY

LAND AND WATER MANAGEMENT DIVISION

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY

PO BOX 30458





CONTROL STRUCTURE



OUTLET CHANNEL AND PIPE UNDER ROAD

SADDLE LAKE

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY LAND AND WATER MANAGEMENT DIVISION DAM INSPECTION REPORT

This form is to be used for inspection reports by Part 307, Inland Lake Levels, for those dams that do not meet the size criteria as defined by Part 315, Dam Safety, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended. Dams six (6) feet or more in height, as defined by Part 315, and impounding five (5) acres or more at the design flood elevation, must meet the inspection report format as outlined in Section 31518 of Part 315.

A person failing to comply or falsely representing dam conditions, is guilty of misconduct in office

DAM NAME			DAM ID		COUNTY	
Shafer Lake Level Control Structure		20	26		Van Buren	
DATE OF INSPECTION	NAME OF WAT	TERBODY	SECTION, TOWN, RA	NGE	LEVEL THIS DA	ATE
A: 1 20 2011	Chafan I ala		C 10 T 20 T	150		721 5
April 29, 2011 DATE OF ELEVATION SET BY	Shafer Lake		Sec. 19, T.3S., I	C.15E.	HIGH WATER N	731.5 MARK ELEVATION
COURT	LEGAL LEVEL		DRAWDOWN LEVEL		HIGH WATER	MARK ELEVATION
	721.2					
October 14, 1796	731.2	-	L			
EARTH EMBANKMENTS LEF	TEMBANKMENT_	FT.	RIGHT EMBANKMEN	TTFT.	TOTAL LENGTH _	FT.
(LOOKING DOWNSTREAM)						
		UPSTREAM		CROWN	ı	DOWNSTREAM
		OI DIRECTOR		CKOWI	,	DOWNSTICAN
VEGETATION COVER						
VEGETATION COVER						
EROSION						
					"特别"。"是一种"。	
SEEPAGE	William Tolk William					
55571105	Charles Model of Control of Control				CONTRACTOR OF THE CONTRACTOR OF	
SLIDES, SLUMPS & CRACKS	A looke have my		o andragina bas samo		m ton more, made	
						27
ANIMAL BURROWS						
			23-412-11			
WAVE ACTION PROTECTION						
	ati yamadi sara	Hope to as	ioe Paul	ell testino son	eard .	
REMARKS*						
prince of the second						
CONTROL STRUCTURE TYPE	- I	YEAR CONST	RUCTED	ISTRUCTUI	RAL HEIGHT	
	andser work	DIL HOLE		(top of dam el		
Steel Sheet Piling	ELIMIEN	1980		minus stream	invert)	1.807.009019
LENGTH OF SPILL WAY	TEIGH INC BIT	FREEBOARD			IC HEIGHT	£4.7%
8'	STATE OF THE			(design flood		
VERTICAL PIPE SIZE		HORIZONTAL	DIDE CIZE	minus stream HEAD	invert)	
VERTICAL PIPE SIZE		HORIZONTAL	FIFE SIZE	(normal heady	vater	
				minus normal	tailwater)	

STOPLOG VALVES AND GATES (open and close to check condition): Check location of top stoplog in relation to top of riser pipe intake box or fixed crest, for leakage, and condition of stoplogs, valves and gates.

None

OUTLET PIPE: Check for damage from ice, logs, vandalism; inside discharge pipe for settlement and/or joint separation; condition of pipe coating.

None

CONTROL STRUCTURE (continued)		
CONCRETE STRUCTURE: Check for eros	ion; location of cracking or spalling. If old or new; settlement;	need for crank repairs.
None		
WALKWAY & RAILING: Check if in place	or removed, condition, and if adequate protection provided.	TRASHRACK OR LOG BOOM: Check if operable.
None		None
EMERGENCY SPILLWAY: Size, type and	condition.	
None		
INLET & OUTLET CHANNELS	DI ST	OTHER PAR
	INLET	OUTLET
SIZE	Structure at edge of pond	10'
EXISTING CONDITION	Good	Good
EROSION	None	None
DEBRIS & OBSTRUCTIONS	None	None
RIPRAP PROTECTION	None	Good
REMARKS*		
RECOMMENDATIONS		
List work needed, how to be done, by whom, COMMENTS.	estimated cost, source of funds, recommended completion date	: If emergency, to what extent. ADDITIONAL
	ga has been replaced	
wooden foot brid	ge has been replaced.	
	Inspection Ordered By: Joe Parmar	n - Van Buren County Drain Commissioner
	Van Buren	County Delegated Agent
Jeffrey S. Wing INSPECTOR'S NAME (P		4568 Red Arrow Highway ADDRESS
11101		Stevensville, MI 49127
I NATURE	~~	CITY, STATE, ZIP CODE
Michigan - 45	106	(269) 428-4424
P.E. REGISTRATION		TELEPHONE NO.

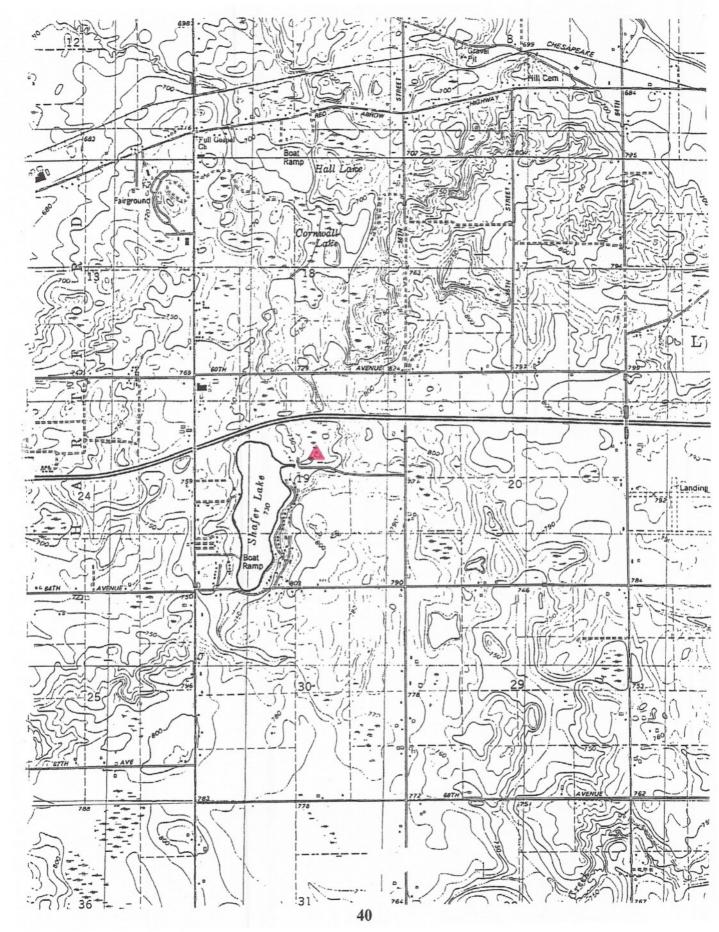
DAM SAFETY

LAND AND WATER MANAGEMENT DIVISION

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY

PO BOX 30458

LANSING MI 48909-7958





CONTROL STRUCTURE (UNDER WOOD BRIDGE)



CONTROL STRUCTURE (UNDER WOOD BRIDGE)

SHAFER LAKE

41

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY LAND AND WATER MANAGEMENT DIVISION DAM INSPECTION REPORT

This form is to be used for inspection reports by Part 307, Inland Lake Levels, for those dams that do not meet the size criteria as defined by Part 315, Dam Safety, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended. Dams six (6) feet or more in height, as defined by Part 315, and impounding five (5) acres or more at the design flood elevation, must meet the inspection report format as outlined in Section 31518 of Part 315.

A person failing to comply, or falsely representing dam conditions, is guilty of misconduct in office.

DAM NAME		DAM ID COUNTY	
Scott Lake Level Control	Structure	2027	Van Buren
DATE OF INSPECTION	NAME OF WATERBODY	SECTION, TOWN, RANGE	LEVEL THIS DATE
April 29, 2011	Scott Lake	Sec. 1, T.2S., R.15W.	679.5
DATE OF ELEVATION SET BY	LEGAL LEVEL	DRAWDOWN LEVEL	HIGH WATER MARK ELEVATION
COURT			
July 14, 1967	678.7	N.A.	ROTTURED SWITTER

EARTH EMBANKMENTS LEFT EMBANKMENT ______FT. RIGHT EMBANKMENT ______FT. TOTAL LENGTH ______FT. (LOOKING DOWNSTREAM)

	UPSTREAM	CROWN	DOWNSTREAM
VEGETATION COVER			
EROSION			
EEPAGE			*1495
LIDES, SLUMPS & CRACKS			27071.0331.03
NIMAL BURROWS	ison catherin to page		6015 Shina
WAVE ACTION PROTECTION	Carried and the same of the sa		
REMARKS*	Van Birto Central Description		

CONTROL STRUCTURE

TYPE	YEAR CONSTRUCTED	STRUCTURAL HEIGHT
		(top of dam elevation
Sheeting in front of culvert	1967	minus stream invert)
LENGTH OF SPILL WAY	FREEBOARD	HYDRAULIC HEIGHT
		(design flood elevation
8.5'	2.5'	minus stream invert)
VERTICAL PIPE SIZE	HORIZONTAL PIPE SIZE	HEAD
		(normal headwater
	54" x 36" Arch CMP	minus normal tailwater)

DESCRIBE CONDITION OF THE FOLLOWING ITEMS.

STOPLOG VALVES AND GATES (open and close to check condition): Check location of top stoplog in relation to top of riser pipe intake box or fixed crest, for leakage, and condition of stoplogs, valves and gates.

None

OUTLET PIPE: Check for damage from ice, logs, vandalism; inside discharge pipe for settlement and/or joint separation; condition of pipe coating.

Good

CONTROL STRUCTURE (continued) CONCRETE STRUCTURE: Check for eros	tion: location of cracking or spalling. If	fold or new, settlement,	need for crank repairs.
None			
None			
WALKWAY & RAILING: Check if in place	or removed, condition, and if adequate	e protection provided.	TRASHRACK OR LOG BOOM: Check if operable.
None			None
EMERGENCY SPILLWAY: Size, type and	condition.		
None			
INLET & OUTLET CHANNELS	INLET		OUTLET
SIZE	30'		12'
EXISTING CONDITION	Good		Good
EROSION	None		None
DEBRIS & OBSTRUCTIONS	None		Good
RIPRAP PROTECTION			Banks of outlet channel are becoming scoured
REMARKS*			Riprap protection is needed for outlet channel
RECOMMENDATIONS			•
	estimated cost, source of funds, recomm	mended completion date.	If emergency, to what extent. ADDITIONAL
Some erosion at the	he outlet. Fill and riprap a	are needed to sta	bilize outlet.
	Inspection Ordered By:	Joe Parman	- Van Buren County Drain Commissioner
		Van Buren	County Delegated Agent
Jeffrey S. Wing	rord		4568 Red Arrow Highway
INSPECTOR'S NAME (P			ADDRESS
1.11	hi. ~		Stevensville, MI 49127
GIGNATURE	N VI		CITY, STATE, ZIP CODE
Michigan - 45	106		(269) 428-4424
P.E. REGISTRATION			TELEPHONE NO.
Di	and of the day described	al and definionalization	:- 4b

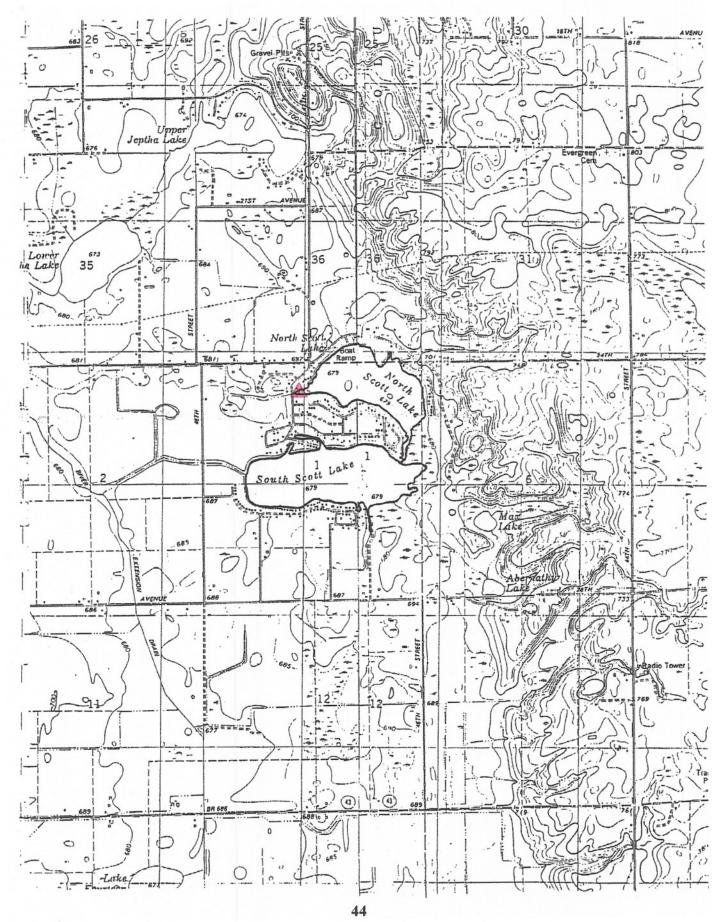
DAM SAFETY

LAND AND WATER MANAGEMENT DIVISION

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY

PO BOX 30458

LANSING MI 48909-7958





CONTROL STRUCTURE AND OUTLET PIPE



CONTROL STRUCTURE AND OUTLET PIPE

SCOTT LAKE

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY LAND AND WATER MANAGEMENT DIVISION DAM INSPECTION REPORT

This form is to be used for inspection reports by Part 307, Inland Lake Levels, for those dams that do not meet the size criteria as defined by Part 315, Dam Safety, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended. Dams six (6) feet or more in height, as defined by Part 315, and impounding five (5) acres or more at the design flood elevation, must meet the inspection report format as outlined in Section 31518 of Part 315.

A person failing to comply, or falsely representing dam conditions, is guilty of misconduct in office.

DAM NAME		DAM ID		COUNTY	
Van Auken Lake Level Control Structure			2028	Van Buren	
DATE OF INSPECTION	NAME OF WATERBODY	SECTION, TOWN, I	RANGE	LEVEL THIS DATE	
April 29, 2011	Van Auken Lake	Sec. 32, T.2S.	. R.16W.	649.40	
DATE OF ELEVATION SET BY	LEGAL LEVEL	DRAWDOWN LEV		HIGH WATER MARK ELEVATION	
COURT		-			
July, 1959	648.7	N.	Α.	ROBBRINGS	
EARTH EMBANKMENTS LEFT E (LOOKING DOWNSTREAM)	EMBANKMENTF	T. RIGHT EMBANKM	TENT FT. TO	TAL LENGTHFT.	
	UPSTREA	М	CROWN	DOWNSTREAM	
VEGETATION COVER					
			proM	MONTO STORM	
EROSION				Extraculative United School Sc	
SEEPAGE					
SLIDES, SLUMPS & CRACKS				8501YATM885	
ANIMAL BURROWS					
ANIMAL BURROWS					
WAVE ACTION PROTECTION					
	Mano Jamua 1994 -	current sol.	- R Turbing make	MM.	
REMARKS*	na issue de l'interna	amuž nav	***		
CONTROL STRUCTURE					
TYPE	YEAR CON	STRUCTED	STRUCTURAI (top of dam eleva		
Sheet Piling	200	00	minus stream inve	F F1	
LENGTH OF SPILL WAY	FREEBOAR		HYDRAULIC	HEIGHT	
41'	III STATE VIII	2.75'	(design flood elev minus stream inve		
VERTICAL PIPE SIZE	HORIZONT	AL PIPE SIZE	HEAD		
	Incozet It		(normal headwate	r o subberbest is	
			minus normal tail	water)	

STOPLOG VALVES AND GATES (open and close to check condition): Check location of top stoplog in relation to top of riser pipe intake box or fixed crest, for

OUTLET PIPE: Check for damage from ice, logs, vandalism; inside discharge pipe for settlement and/or joint separation; condition of pipe coating.

leakage, and condition of stoplogs, valves and gates.

None

None

CONTROL STRUCTURE (continued)	Leading Complete and Wine To a	J	
CONCRETE STRUCTURE: Check for erosion; None	location of cracking of spaning. If or	d or new, settlement, ne	red for crank repairs.
WALKWAY & RAILING: Check if in place or r	emoved, condition, and if adequate pr	rotection provided.	TRASHRACK OR LOG BOOM: Check if operable.
None			None
EMERGENCY SPILLWAY: Size, type and cond	lition.		
None			
INLET & OUTLET CHANNELS	INLET		OUTLET
SIZE	20'		20'
EXISTING CONDITION	Good		Good
EROSION	None		None
DEBRIS & OBSTRUCTIONS	None		None
RIPRAP PROTECTION	None		None
REMARKS*			
RECOMMENDATIONS List work needed, how to be done, by whom, estin COMMENTS. None	nated cost, source of funds, recommer	nded completion date.	If emergency, to what extent. ADDITIONAL
	Inspection Ordered By:	Joe Parman -	- Van Buren County Drain Commissioner
		Van Buren C	County Delegated Agent
Jeffrey S. Wingard		4:	568 Red Arrow Highway
INSPECTOR'S NAME (PRIN	TED)		ADDRESS
SIGNATURE	^	S	tevensville, MI 49127 CITY, STATE, ZIP CODE
Michigan - 45100	5	C	269) 428-4424
P E REGISTRATION NO		- (-	TELEPHONE NO.

DAM SAFETY LAND AND WATER MANAGEMENT DIVISION MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY PO BOX 30458 LANSING MI 48909-7958





CONTROL STRUCTURE



VAN AUKEN LAKE

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY LAND AND WATER MANAGEMENT DIVISION DAM INSPECTION REPORT

This form is to be used for inspection reports by Part 307, Inland Lake Levels, for those dams that do not meet the size criteria as defined by Part 315, Dam Safety, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended. Dams six (6) feet or more in height, as defined by Part 315, and impounding five (5) acres or more at the design flood elevation, must meet the inspection report format as outlined in Section 31518 of Part 315.

A person failing to comply, or falsely representing dam conditions, is guilty of misconduct in office.

DAM NAME		DAM ID	COUNTY
Lake of the Woods Lake	Level Control Structure	2029	Van Buren
DATE OF INSPECTION	NAME OF WATERBODY	SECTION, TOWN, RANGE	LEVEL THIS DATE
April 29, 2011	Lake of the Woods	Sec. 24, T.4S., R.15W.	752.0
DATE OF ELEVATION SET BY	LEGAL LEVEL	DRAWDOWN LEVEL	HIGH WATER MARK ELEVATION
COURT			
May 2, 1905	751.5	36%	sortinos.

EARTH EMBANKMENTS	LEFT EMBANKMENT FT.	RIGHT EMBANKMENTFT.	TOTAL LENGTHFT.
(LOOKING DOWNSTREAM)		DRO.	
	UPSTREAM	CROW	'N DOWN

	UPSTREAM	CROWN	DOWNSTREAM
VEGETATION COVER			
EROSION			
BEEPAGE			esm.
LIDES, SLUMPS & CRACKS			3291, adv 335
NIMAL BURROWS			2156
WAVE ACTION PROTECTION	21		de pyotuby;
REMARKS*	tale A fermois Olumbo Caputal and		

CONTROL STRUCTURE

TYPE	YEAR CONSTRUCTED	STRUCTURAL HEIGHT
	SCICA CONTRACTOR OF THE SCIENCE OF T	(top of dam elevation
U Shaped Sheet Piling	1952	minus stream invert)
LENGTH OF SPILL WAY	FREEBOARD	HYDRAULIC HEIGHT
	20 AT 2 AT DE	(design flood elevation
24'	2'	minus stream invert)
VERTICAL PIPE SIZE	HORIZONTAL PIPE SIZE	HEAD
	CHEATH CO.	(normal headwater
		minus normal tailwater)

DESCRIBE CONDITION OF THE FOLLOWING ITEMS.

STOPLOG VALVES AND GATES (open and close to check condition): Check location of top stoplog in relation to top of riser pipe intake box or fixed crest, for leakage, and condition of stoplogs, valves and gates.

None

OUTLET PIPE: Check for damage from ice, logs, vandalism; inside discharge pipe for settlement and/or joint separation; condition of pipe coating.

None

CONTROL STRUCTURE (continued) CONCRETE STRUCTURE: Check for erosion:	location of cracking or spalling. If old or new, settlement, r	need for crank repairs.	
None			
WALKWAY & RAILING: Check if in place or	removed, condition, and if adequate protection provided.	TRASHRACK OR LOG BOOM: Check if operable.	
None		None	
EMERGENCY SPILLWAY: Size, type and con-	lition.		
None			
INLET & OUTLET CHANNELS	INLET	OUTLET	
SIZE	40'	20'	
EXISTING CONDITION	Fair	Good	
EROSION	None	None	
DEBRIS & OBSTRUCTIONS	None	None	
RIPRAP PROTECTION		None	
REMARKS*	None	None	
L			
RECOMMENDATIONS List work needed, how to be done, by whom, esting COMMENTS.	nated cost, source of funds, recommended completion date.	If emergency, to what extent. ADDITIONAL	
Steel sheeting wingy	vall is continuing to corrode. and brush around wingwalls.		
	9	- Van Buren County Drain Commissioner	
Van Buren County Delegated Agent		County Delegated Agent	
I. C. O. W.		4500 D. 1.4. W. 1.	
Jeffrey S. Wingard INSPECTOR'S NAME (PRIN		4568 Red Arrow Highway ADDRESS	
100 01.		Stevensville, MI 49127	
SIGNATURE		CITY, STATE, ZIP CODE	
Michigan - 4510	06	(269) 428-4424	
P.E. REGISTRATION NO		TELEPHONE NO.	

DAM SAFETY
LAND AND WATER MANAGEMENT DIVISION
MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
PO BOX 30458
LANSING MI 48909-7958

UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY





CONTROL STRUCTURE - CORRODED STEEL WINGWALL



CONTROL STRUCTURE AND INLET CHANNEL

LAKE OF THE WOODS



CONTROL STRUCTURE - CORRODED STEEL WINGWALL



CONTROL STRUCTURE - CORRODED STEEL WINGWALL

LAKE OF THE WOODS